6 2 2 2005 ⁸⁵	, nonwork Reduction Act of 1995, no n	. U.S.	Patent and Tra	PTO/SB/21 (09-04) pproved for use through 07/31/2006. OMB 0651-0031 demark Office; U.S. DEPARTMENT OF COMMERCE mation unless it displays a valid OMB control number.
	ELMON MEGACION ACCOL 1555. NO D	Application Number	10/668,909	
TRANSMITTAL FORM		Filing Date	September 23, 2005	
		First Named Inventor	Rune MITTET	
		Art Unit	2863	
(to be used for all correspondence after initial filing)		Examiner Name	Victor J. Taylor	
Total Number of Pages in This Submission		Attorney Docket Number	PGS-03-03US	
ENCLOSURES (Check all that apply)				
Amendme Af Af Extension Express A Information Certified C Document Reply to M Incomplet	smittal Form see Attached ent/Reply ter Final fidavits/declaration(s) of Time Request shandonment Request on Disclosure Statement Copy of Priority	Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocatic Change of Correspondence Terminal Disclaimer Request for Refund CD, Number of CD(s) Landscape Table on Cemarks ther: - Return Postcard	on Address	After Allowance Communication to TC Appeal Communication to Board of Appeals and Interferences Appeal Communication to TC (Appeal Notice, Brief, Repty Brief) Proprietary Information Status Letter Other Enclosure(s) (please Identify below):
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT				
Firm Name Petroleum Geo-Services, Inc.				
Signature E. Eugen Kräßen				
Printed name E. Eugene Thigpen				
Date August 18, 2005 Reg. No. 27,400				27,400
CERTIFICATE OF TRANSMISSION/MAILING				
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11 E. Eugene Thispen Date | August 18, 2005 Typed or printed name

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In re Application of:

Rune Mittet

Serial No.

10/668,909

Filed:

September 23, 2003

Title:

METHOD FOR SEISMIC

MIGRATION USING EXPLICIT

DEPTH EXTRAPOLATION

OPERATORS WITH

DYNAMICALLY VARIABLE

OPERATOR LENGTH

Group Art Unit: 2863

Examiner: Victor J. Taylor

Atty Docket No. PGS-03-03US

Mail Stop Amendment

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

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Date: August 18, 2005

RESPONSE TO OFFICE ACTION

(A) INTRODUCTORY COMMENTS

This letter is in response to the first Office Action, mailed 05/18/2005, in the patent application identified above.

Claims 1-16 are pending in the present patent application and all claims are rejected in this Office Action under 35 U.S.C. §102(b). Claims 4-9 are amended to correct typographical errors only. A complete set of claims, including amended claims, are presented below in Section (B) Amendments to the Claims. These amendments and traversal of the claim rejections are discussed below in Section (C) Remarks.

The sections of this response begin on the following pages:

page 1 (A) Introductory Comments

page 3 (B) Amendments to the Claims

page 9 (C) Remarks